

## ATTACHMENT A

Claims 1 - 11: (Cancelled)

12. (Currently Amended) A process for preparing cyclopentadienyl system anions of the formula (VII),

$$A \xrightarrow{R^{4B}} R^{1A}$$

$$R^{4B}$$

$$R^{4B}$$

$$R^{3A}$$

$$R^{3A}$$

where the variables have the following meanings:

 $R^{1A}-R^{4A}$  are each, independently of one another, hydrogen,  $C_1-C_{20}$ -alkyl,  $C_2-C_{20}$ -alkenyl,  $C_6-C_{20}$ -aryl, alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part,  $NR^{6A}_2$ ,  $N(SiR^{6A}_3)_2$ ,  $OR^{6A}$ ,  $OSiR^{6A}_3$ , or  $SiR^{6A}_3$  where the organic radicals  $R^{1A}-R^{4A}$  may also be substituted by halogens and two vicinal radicals  $R^{1A}-R^{4A}$  may also be joined to form a five- or sixmembered ring, and/or two vicinal radicals  $R^{1A}-R^{4A}$  are joined to form a heterocycle which contains at least one atom selected from the group consisting of N, P, O and S,

 $R^{6A}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl$ ,  $C_2\text{-}C_{20}\text{-}alkenyl$ ,  $C_6\text{-}C_{20}\text{-}aryl$ , or alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part and two geminal radicals  $R^{6A}$  may also be joined to form a five- or six-membered ring,

A is an unsubstituted, substituted or fused, heteroaromatic ring system,

 $R^{4B}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl$ ,  $C_2\text{-}C_{20}\text{-}alkenyl$ ,  $C_6\text{-}C_{20}\text{-}aryl$ , alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or  $SiR^{3B}_3$ , where the organic radicals  $R^{4B}$  may also be substituted by halogens and two geminal or vicinal radicals  $R^{4B}$  may also be joined to form a five- or six-membered ring and

 $R^{3B}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl$ ,  $C_2\text{-}C_{20}\text{-}alkenyl$ ,  $C_6\text{-}C_{20}\text{-}aryl$  or alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part and two radicals  $R^{3B}$  may also be joined to form a five- or six-membered ring,

which comprises the step a) or a'), where, in step a), an A heteroaromatic ring system anion comprising a negative charge on a carbon atom adjacent to a heteroatom in the A heteroaromatic ring system is reacted with a fulvene of the formula (VIIIa)

$$R^{4B}$$
 $R^{4B}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 

or,

in step a'), an organometallic compound  $R^{4B}M^BX^B_b$  where  $M^B$  is a metal of group 1 or 2 of the Periodic Table of the Elements,

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 $X^B$  is halogen,  $C_1$ - $C_{10}$ -alkyl, alkoxy having from 1 to 20 carbon atoms in the alkyl radical and/or from 6 to 20 carbon atoms in the aryl radical, or  $R^{4B}$  and

0

b is 0 when M<sup>B</sup> is a metal of group 1 of the Periodic Table of the Elements, and is 1 when M<sup>B</sup> is a metal of group 2 of the Periodic Table of the Elements, is reacted with a fulvene of the formula (VIIIb):

$$R^{4B}$$
 $R^{4A}$ 
 $R^{3A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 
 $R^{4A}$ 

13. (Previously Presented) A process for preparing cyclopentadiene systems of the formula (VIIa)

$$A = C = E^{10A} = E^{10A$$

where the variables have the following meanings:  $E^{6A}-E^{10A} \quad \text{are each carbon, where in each case four} \\ \quad \text{adjacent } E^{6A}-E^{10A} \quad \text{form a conjugated diene system} \\ \quad \text{and the remaining } E^{6A}-E^{10A} \quad \text{additionally bears a} \\ \quad \text{hydrogen atom,} \\$ 

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- R<sup>1A</sup>-R<sup>4A</sup> are each, independently of one another, hydrogen,  $C_1-C_{20}$ -alkyl,  $C_2-C_{20}$ -alkenyl,  $C_6-C_{20}$ -aryl, alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part,  $NR^{6A}_{2}$ ,  $N(SiR^{6A}_{3})_{2}$ ,  $OR^{6A}$ ,  $OSiR^{6A}_{3}$ , or  $SiR^{6A}_{3}$ , where the organic radicals  $R^{1A}-R^{4A}$  may also be substituted by halogens and two vicinal radicals R<sup>1A</sup>-R<sup>4A</sup> may also be joined to form a five- or sixmembered ring, and/or two vicinal radicals  $R^{1A}-R^{4A}$ are joined to form a heterocycle which contains least one atom selected from the group at consisting of N, P, O and S,
- $R^{6A}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl$ ,  $C_2\text{-}C_{20}\text{-}alkenyl$ ,  $C_6\text{-}C_{20}\text{-}aryl$ , or alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part and two geminal radicals  $R^{6A}$  may also be joined to form a five- or six-membered ring,
- A is an unsubstituted, substituted or fused, heteroaromatic ring system,
- $\rm R^{2B}$  are each, independently of one another, hydrogen,  $\rm C_1\text{-}C_{20}\text{-}alkyl$ ,  $\rm C_2\text{-}C_{20}\text{-}alkenyl$ ,  $\rm C_6\text{-}C_{20}\text{-}aryl$ , alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or  $\rm SiR^{3B}_3$ , where the organic radicals  $\rm R^{2B}$  may also be substituted by halogens and  $\rm R^{2B}$  and A may also be joined to form a five- or six-membered ring,
- $R^{3B}$  are each, independently of one another, hydrogen,  $C_1\text{-}C_{20}\text{-}alkyl$ ,  $C_2\text{-}C_{20}\text{-}alkenyl$ ,  $C_6\text{-}C_{20}\text{-}aryl$  or alkylaryl having from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part

and two radicals  $R^{3B}$  may also be joined to form a five- or six-membered ring,

which comprises the following step:

a'') reaction of an A-CR<sup>2B</sup>R<sup>2B-</sup> anion with a cyclopentenone system of the formula (IX)

- 14. (Cancelled)
- 15. (Cancelled)
- 16. (Cancelled)
- 17. (Previously Presented) The process as claimed in claim 12, wherein A has the formula (III):

$$\begin{array}{c|c}
R_{p}^{2C} \\
R_{p}^{1C} & P_{p}^{2C} \\
R_{p}^{1C} & R_{p}^{3C} \\
R_{p}^{1C} & R_{p}^{4C}
\end{array}$$
(III)

wherein

 $E^{1C}-E^{4C}$  are each carbon or nitrogen;

 $R^{1C}-R^{4C}$  are each, independently of one another, hydrogen,  $C_1-C_{20}$ -alkyl,  $C_2-C_{20}$ -alkenyl,  $C_6-C_{20}$ -aryl, alkylaryl

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comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, or  $SiR^{5C}_3$ , wherein  $R^{1C}-R^{4C}$  are optionally substituted by at least one halogen, nitrogen,  $C_1-C_{20}$ -alkyl group,  $C_2-C_{20}$ -alkenyl group,  $C_6-C_{20}$ -aryl group, alkylaryl group comprising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or  $SiR^{5C}_3$ , and two vicinal  $R^{1C}-R^{4C}$  or  $R^{1C}$  and Z are optionally joined to form a five- or six-membered ring;

 $R^{5C}$  are each, independently of one another, hydrogen,  $C_1$ - $C_{20}$ -alkyl,  $C_2$ - $C_{20}$ -alkenyl,  $C_6$ - $C_{20}$ -aryl or alkylaryl comrising from 1 to 10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part, and two  $R^{5C}$  are optionally joined to form a five- or six-membered ring; and

p is 0 when  $E^{1C}-E^{4C}$  is nitrogen, and is 1 when  $E^{1C}-E^{4C}$  is carbon.